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Liquid Crystal Display (LCD) or Cathode Ray Tube (CRT), artwork, or additional electronics such a fingerprint recognizer. In some embodiments, layer 60 may be omitted altogether. Alternatively, substrate 58 can be omitted and transparent conductor 56 can be patterned directly on layer 60.

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A number of additional alternative embodiments of the invention are possible. For example, electrical shielding may be required to isolate sensor traces from electrical noise that arises from electrical circuits that are present below the sensor. One preferred, but not limiting embodiment is shown in Figure 6 on two-dimensional sensor 36. Layers 62-68 are the same art as described in Figure 5D. Beneath transparent substrate 68, another layer of transparent insulator 74 attaches another layer of transparent conductor 78 and substrate 80. Unlike transparent conductor layers 64 and 70, transparent conductor 78 is a uniform layer of conductor that is connected to an electrical ground. Grounding transparent conductor 78 provides sensor 36 with electrical shielding from electrical noise sources that might radiate from layer 60 or below. Examples of materials suitable for transparent conductor 78 and substrate 80 have already been described in Figure 2.

In the Drawings:

Please amend FIG. 5D as indicated by the red line in the attached copy. A "clean" version of amended FIG. 5D is also attached.